Claims

- 1. Reflective layer for the attenuation of electromagnetic radiation, including at least one reflective layer, including at least one reflective component, characterised in that
 - for the reflective layer, serving as reflective component, a substance or a mixture of the group of the following substances is selected: carbon particles or fibres, in particular carbon black and/or graphite and/or an electrically conductive graphite composition, metal particles and/or fibres, in particular copper, aluminium, steel, titanium and/or iron particles or fibres as well as particles of metal alloys, that
 - the reflective layer attenuates electromagnetic radiation in a range of 16 Hz up to 10 GHz by more than 10 dB, that
 - the reflective layer is waterproof and water vapour pervious; that
 - the reflective layer is weather-resistant, and that
 - the reflective layer is adapted for applying a potential compensation means.
- 2. Reflective layer according to claim 1, characterised in that the reflective layer attenuates the electromagnetic radiation in a range between 200 MHz and 10 GHz by more than 10 dB.
- 3. Reflective layer according to claim 1, characterised in that the reflective component includes a binder.
- 4. Reflective layer according to claim 1, characterised in that the reflective layer is of multiple layer structure, wherein at least one layer of the reflective layer includes a mixture of a binder and a reflecting component.

- 5. Reflective layer according to claim 4, characterised in that a layer of the reflective layer takes the form of a metal layer, in particular a metal layer formed by vapour-coating.
- 6. Reflective layer according to claim 4, characterised in that the reflective layer includes at least one layer having a reflective component composed of a metal or metal alloy and at least one layer including a reflective component of a non-metal.
- 7. Reflective layer according to claim 1, characterised in that the binder is a single or dual component resin, in particular an epoxy resin, a polyurethane resin composition and/or a polyacrylate composition.
- 8. Reflective layer according to claim 1, characterised in that the binder is water vapour pervious.
- 9. Reflective layer according to claim 1, characterised in that the incident electromagnetic radiation in a range of 16 Hz up to 10 GHz, preferably in a range of 200 MHz up to 10 GHz, is attenuated by more than 15 dB, preferably by more than 20 dB, at least regionally.
- 10. Reflective layer according to claim 1, characterised in that the reflective layer is designed for the mechanical application, in particular by interhooking of a potential compensation means.
- 11. Reflective layer according to claim 1, characterised in that the reflective layer is applied onto a substrate, in particular onto a non-woven web or a foil.
- 12. Reflective layer according to claim 1, characterised in that the substrate material is produced of a plastics, in particular of polyester, polyethylene,

- polyacrylate, glass fibre, paper, polyamide, polyurethane or textile fibres or mixtures of the aforesaid fibre and/or resin types.
- 13. Reflective layer according to claim 1, characterised in that the reflective layer and where applicable also the substrate is in the form of a flexible strip.
- 14. Reflective layer according to claim 1, characterised in that the reflective layer has normal flame resistance, being classified as fire protective class B2.
- 15. Reflective layer according to claim 1, characterised in that a foamed layer which optionally contains a flame retardant has been applied onto a reflective layer.
- 16. Reflective layer according to claim 1, characterised in that in the case of a multiple layer strip including a reflective layer, the reflective layer is provided on the outside or the inside.
- 17. Reflective layer according to claim 1, characterised in that a dispersion agent, a softening agent and/or an agent counteracting embrittlement of the reflective layer, stabilisers and/or flame retardants have been added to the reflective layer.
- 18. Reflective layer according to claim 1, characterised in that the reflective layer after an exposure of 1 month to the weather attenuates the electromagnetic radiation incident onto the reflective layer in a range between 16 Hz up to 10 GHz, preferably in a range of 200 MHz up to 10 GHz unchanged by more than 10 dB.
- 19. Process for attenuating electromagnetic radiation in which

- a waterproof and water vapour pervious reflective layer for attenuating electromagnetic radiation includes at least one layer of a reflective component and a binder, and in which the reflective layer is adapted for the application of a potential compensation means,
- is applied in such a manner that the reflective layer faces the incident electromagnetic radiation,
- a potential compensation means is fitted and, where applicable, a plurality of reflective layers are interconnected by means of a potential compensation means.
- 20. Process according to claim 19, characterised in that as a reflective component a substance is used or a mixture selected from the group of the following substances: carbon particles or fibres, in particular carbon black and/or graphite and/or an electrically conductive graphite composition, metal particles and/or fibres, in particular copper, aluminium, titanium, steel-and/or iron particles or fibres as well as particles of a metal-alloy.
- 21. Potential compensation means for use for connecting two reflective layers according to any one of claims 1 to 18, characterised in that the potential compensation means takes the form of a metal strip or as a strip comprising the features of the reflective layer according to at least one of claims 1 to 18.